

WHAT IS CLAIMED IS:

1. An aluminum or aluminum alloy member having an anodized film formed thereon which is composed of a porous layer and a non-porous barrier layer whose structure is at least partly boehmite or pseudo-boehmite, said anodized film being characterized by that the film dissolving rate measured by the test for immersion in a mixture of phosphoric acid and chromic acid (conforming to JIS H8683-2) is less than  $120 \text{ mg/dm}^2/15 \text{ min}$ , the ratio of area in which corrosion occurs after standing for 2 hours in an atmosphere of argon containing 5% chlorine (at  $300^\circ\text{C}$ ) is less than 15%, and the film hardness (Hv) is no lower than 420.

2. The aluminum alloy member as defined in Claim 1, which contains 2.0-3.0 mass% of Mg, less than 0.3 mass% of Si, and less than 0.1 mass% of Cu.

3. The aluminum alloy member as defined in Claim 1, which is a vacuum chamber member.